

display resolution on a display surface with display resolution of  $m \times n$  with only the number of LEDs equal to  $(mxn)/f + \text{\#LEDs in the dead zone}$ , as defined in FIG 6. (4) Jang claims that the display assembly (300) is to rotate at a high speed of at least 30 revolutions per second in order to render the optical afterimage of a desired  $>30$  frame/sec for motion picture capability. The frame rate directly relates to the rotation speed. For the same frame rate, our invention is directly related to the scanning factor "f" and the spacing between two display building units. For example, if the spacing between the two display unit (FIG 7) is "d", for a 30frame/s afterimage, the line speed of display surface W1, W2, etc will be equal to  $f \cdot d \cdot 30$ . This line speed is not directly related to the rotation speed of the whole display unit.

In conclusion, our invention is fundamentally different than Jang's both in its configuration and its goal. We shall further qualify our claim #1 so as not to overlap our claims from Jang's, as the following:

Claim #1:         

A display apparatus including:

At least two stationary rotating units, which are fixed on a housing with at least one opening for viewing;

A moving unit, which has a plurality lines of light emitting elements regularly spaced, each line including a plurality of light emitting elements regularly arranged and perpendicular to the direction of the said moving unit movement; the number of lines of light emitting elements in the opening viewing area is defined as "n" divided by "f", where "n" is the desired display resolution in number of lines in the

viewing area on the moving direction, and "f" is an integer greater or equal to two;

Means to provide smooth rotation for the stationary rotating units;

A control unit to provide power and control signals to the light-emitting elements on the moving units;

Means to provide communication between the control unit and the moving units.

With the modified claim #1, the dependant claims 2, 4, 7, 9-11, 18 should not be considered as anticipated by Jang, as they are combined to produce a different structure to produce a different result.

In response to your Detailed Action #1, we modify FIG5 number under POWER SOURCE to 22, instead of 23. A replacement sheet for FIG 5 is attached.

In response to your Detailed Action #2, regarding Claim #6, we modify the claim to the following:

Claim 6:

The at least two stationary rotating units in claim 1 is further consists of at least one extruding spike on both ends for attaching the moving unit, and for rotating this moving unit around the at least two stationary rotating units.

In response to your Detailed Action #3 & #4, we modify the claim 19 to the following:

Claim 19:

The communication unit in claim 1 comprises of at least one static elongate rod parallel to at least one of the stationary rotating units and situated in its proximity; there are extruding conductive contacts situated on its side facing the stationary rotating unit and are arranged in the same pattern as those multiple metallic rings imbedded on the stationary rotating unit and making contact with them constantly;

In response to your Detailed Action # 6 regarding Claim 2, we modify it to the following:

Claim 2:

The at least two stationary rotating units from claim 1 are cylindrical in shape.

In response to Detailed Action #8 on Claim #24~26, we further qualify claim #24 as the following so that Claim 24 through 26 will not be qualified as anticipated by Jang's:

Claim #24:

A display apparatus including:

At least two stationary rotating units, which are fixed on a housing with at least one opening for viewing;

A moving unit, which has a plurality lines of light emitting elements regularly spaced, each line including a plurality of light emitting elements regularly arranged and perpendicular to the direction of the said moving unit movement; the number of lines of light emitting

elements in the opening viewing area is defined as "n" divided by "F", where "n" is the desired display resolution in number of lines in the viewing area on the moving direction, and "F" is an integer greater or equal to two;

Means to provide smooth rotation for the stationary rotating units;

A control unit to provide power and control signals to the light-emitting elements on the moving units;

Means to provide communication between the control unit and the moving units;

A scanning display method based on using at least one line of light emitting elements to display an one page information in a line by line format as it travels through the at least one display viewing area defined by any two rotating units each of the at least one line of light emitting elements will complete the scanning of the total number of scanning lines containing in one image frame, before it will be required to scan the same or different image frame.

Please use the following correspondence contact: FAX 408-257-7977, Tel: 408-257-9559. Our alternative fax number is 650-802-6978, Tel: 408-386-3478.

Sincerely,



YuanYue Zhang/Victor Lam